

# JONATHAN SPARKS

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## Education

- New York University – Interactive Telecommunications Program (ITP)** | New York, NY May 2015  
Master of Professional Studies
- Northeastern University** | Boston, MA May 2005  
Bachelor of Science in Music, Minor: Business Administration

## Experience

- Ernst & Young** | New York, NY Oct 2017 – Dec 2017  
\_ experiential design, engineering, programming, fabrication – **Citibank Lego Wall**
- Teachers College, Columbia University** | New York, NY Oct 2016 - Jun 2017  
\_ experiential design, engineering, programming, fabrication - **Keepsake**
- Team-A-Toys** | New York, NY Jan 2016 - May 2016  
\_ industrial design, electrical engineering, programming, fabrication – **Galaxy Stars**
- MKG** | New York, NY Sep 2015  
\_ technical support/ troubleshooting - **US Open/Chase Charging Wall and Photobooth**
- Brooklyn Research** | New York, NY Aug 2015  
\_ fabrication and electronic assembly - **US Open/Chase Charging Wall**
- Yorgo Alexopoulos Multimedia** | New York, NY Jan 2015  
\_ fabrication and electronic assembly - **Clouds**
- Peter Coffin Studio** | New York, NY Jun 2014  
\_ LED programming, fabrication, and electronics consulting - **Living exhibition: Alphabet Rainbow**

## Skills

### Software

- \_ design: Photoshop, Illustrator, Rhino, Eagle
- \_ multimedia: After Effects, Premiere, MadMapper, Ableton, Pro Tools

### Programming languages/environments

- \_ Arduino, Processing, Android, Python, HTML, CSS, JavaScript, jQuery, Max/MSP/Jitter

### Physical Computing

- \_ input: analog sensors, microphones, and cameras
- \_ output: sound, addressable RGB LEDs, linear actuators, dc/stepper/servo motors
- \_ microcontroller/dev boards: Arduino, Raspberry Pi
- \_ wireless communication: gsm, wi-fi, Zigbee, Bluetooth
- \_ mechanisms

### Fabrication

- \_ wood/metal/plastic fabrication & finishing
- \_ experienced in full range of power and hand tools
- \_ digital fabrication: laser cutting and 3D printing

### Electronics

- \_ analog circuitry / pcb design
- \_ digital / logic integrated circuits
- \_ soft circuits / wearables

### Multi-Media

- \_ projection mapping
- \_ music composition, performance, sound design

## Achievements

- Margaret Guthman Musical Instrument Competition** | Nomis - People's Choice: Best Instrument / Best Performance
- NYU Prototyping Fund awardee** | Fine Motor Tech
- Cool Hunting 25** | Honoree in design
- Brooklyn 1.0** | Guest Speaker
- Paseo** | Wearables workshop and After Party Performance
- DJ Jazzy Jeff's Playlist Retreat** | Nomis Demonstration
- Featured Press:** \_online: **Creator's Project**, **Popular Science**, **DesignBoom**, **WNYC**,  
\_print: **Protein Journal**, **Inch Magazine**  
\_television: **TODAY show - Future of Music**, **Discovery Channel: Daily Planet**